Att'y Docket No.: 1728.04

Claim Amendment under 37 CFR 1.121(c)

1. (Cancelled)

2. (Currently Amended) A laboratory animal breeding cage having a double filter comprising:
a body_(30) having an air supply valve_(31) formed at [[~~one side~~]] the face of a wall thereof for allowing air to be introduced thereinto; and
a lid_(10) removably coupled to the body_(30), and having a plurality of exhaust holes_(18) formed all over the top and bottom surfaces thereof, an outer filter_(13a) mounted beneath the top surface thereof, an outer filter fixing frame_(11a) disposed beneath the outer filter_(13a), an inner filter fixing frame (11b) located beneath the outer filter fixing frame (11a), an exhaust space_(19) formed between the outer filter fixing frame_(11a) and the inner filter fixing frame_(11b), an inner filter_(13b) disposed beneath the inner filter fixing frame_(11b), a filter fixing plate_(12) attached to the bottom surface thereof, and an exhaust outlet_(14) formed at [[~~one side~~]] the face of a wall thereof in such a manner as to communicate with the exhaust space_(19),
wherein the outer filter_(13a), the outer filter fixing frame_(11a), the inner filter fixing frame (11b), the inner filter_(13b) and the filter fixing plate_(12) are fixedly secured to each other to form the lid_(10) .

3. (Currently Amended) A method for breeding laboratory animals using the laboratory animal breeding cage according to claim 2, comprising the steps of:
making the pressure of air introduced into the body (30) of the cage through the air supply valve_(31) 10 to 20% lower than the suction force of the exhaust outlet_(14) to let the cage be under negative pressure;
filtering the air introduced into the body_(30) of the cage through the air supply valve_(31) by means of the inner filter_(13b) when the introduced air is contaminated after being used for animal respiration, and discharging the contaminated air to the exhaust space_(19) and further discharging the same through the exhaust outlet_(14) to an exhaust pipe_(50); and
at the same time, sucking external air into the cage by means of the outer filter_(13a) due to a difference between the air pressure inside the cage and the air pressure outside, and discharging the sucked air through the exhaust space_(19) to the exhaust pipe (50).

4. (Withdrawn) A double safety valve of a lap animal breeding cage, comprising:
a valve body(43);
a fixing sleeve(47);
an outer valve(46) having a first spring 45 embedded therein and interposed between the valve body(43) and the fixing sleeve(47) in such a manner as to be mounted to the inside of the valve body(43) by means of the fixing sleeve(47); and

an inner valve(42) mounted to the outside of the valve body(43) opposite to the inside of the valve body(43) to which the outer valve(46) is mounted;
wherein the inner valve(42) and the outer valve(46) are coupled to each other by means of a clamping bolt (41) and a stop nut(48), and when the first spring (45) is pressed by a silicon rod(63) connected to a second spring(64) of an air nozzle pipe(62), the outer valve(46) is moved into the valve body(43) so as to be opened, and the inner valve(42) connected to the outer valve(46) is also pushed into a body(30) of the cage so as to be opened.

5. (Withdrawn) The double safety valve according to claim 4, wherein the outer valve(46) has three to five guide wing parts(46a) extending therefrom for guiding the outer valve(46) to move in the valve body(43), and the inner valve(42) has a plurality of vent holes(42a) formed thereon for allowing air to pass therethrough.